

A SYNOPSIS OF THE ASIAN SPECIES OF DELPHINIUM, SENSU STRICTO*

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GROUP X

Leaves rather coarsely lobed as in Groups VIII and IX, but the spurs strongly curved to make about a half circle.

This group, also, is an artificial one and does not agree with any taxonomic subdivision proposed for the genus.

KEY TO SPECIES

1. Sepals with subapical cornute appendages 1–2 mm. long; flowers purplish blue.
 2. The sepals 18–20 mm. long; spur 20–22 mm. long. (These two species treated in Group VIII).
 3. Ultimate leaf-lobules 5–8(–10) mm. wide. Yunnan, etc. 146. *D. ceratophorum*.
 3. Ultimate leaf-lobules 2–4 mm. wide. Tibet. 145. *D. ceratophoroides*.
 2. The sepals 15–18 mm. long; spur to 18 mm. long. Szechwan. 236. *D. campylocentrum*.
1. Sepals lacking subapical cornute appendages.
 4. Stem and axis of inflorescence largely glabrous.
 5. Sepals 10–11 mm. long.
 6. Inflorescence racemose; pedicels 3.5–9 cm. long. Szechwan. (This species treated in Group VIII). 154. *D. glabricaule*.
 6. Inflorescence a diffuse panicle; pedicels 1.5–3 cm. long. Yunnan, etc. 239. *D. polyanthum*.
 5. Sepals 15–25 mm. long.
 7. Bracteoles 7–15 mm. long. Yunnan. 237. *D. eriostylum*.
 7. Bracteoles shorter, 2–7 mm. long. Szechwan.
 8. Petals more or less dark; sepals more or less strigulose, 17–20 mm. long. 240. *D. potaninii*.
 8. Petals bluish; sepals more loosely pubescent, 13–17 mm. long. 244. *D. tongolense*.
 4. Stem and/or axis of inflorescence more or less hairy or pubescent.
 9. Sepals 18 mm. or more long.
 10. Sepals glabrous; spur 17–18 mm. long. Dagestania. (Treated in Group IX). 215. *D. mariae*.

* Continued from volume 49, p. 166. With this section of the paper the long series of studies by Philip A. Munz on the genera *Delphinium* and *Consolida* is completed. The series was initiated in volume 48 of this Journal and includes: A synopsis of African species of *Delphinium* and *Consolida* 48: 30–55. 1967; A synopsis of the Asian species of *Consolida* (Ranunculaceae), *ibid.* 159–202; and the first two portions of the present paper, *ibid.* 249–302, 476–545, which is continued in the first number of the present volume, 49: 73–166. *Ed.*

10. Sepals more or less pubescent; spur 20–25 mm. long. China. 243. *D. spirocentrum*.
9. Sepals shorter.
 11. Leaf divisions long-acuminate; bracteoles at middle of pedicels. Szechwan. 241. *D. pseudo-tongolense*.
 11. Leaf divisions not long-acuminate.
 12. Upper petal bidentate at apex; upper sepal largely 15–18 mm. long.
 13. Inflorescence racemose; leaves with coarse teeth; bracteoles near the flower. 235. *D. bulleyanum*.
 13. Inflorescence paniculate; leaves with fine teeth; bracteoles near middle of pedicel. 244. *D. tongolense*.
 12. Upper petal entire to somewhat erose at apex.
 14. Lamina of lower petal not divided.
 15. Limb of the lower petal elongate-linear. Asia Media. (Treated in Group VIII). 159. *D. knorringianum*.
 15. Limb of the lower petal oblong, 5 mm. wide. Szechwan. (Treated in Group VIII). 156. *D. hirticaule*.
 14. Lamina of lower petal divided.
 16. Upper sepal 20–25 mm. long, the spur 16–18 mm. long. Altai. (Treated in Group IX). 217. *D. mirabile*.
 16. Upper sepal shorter.
 17. Sepals with appressed hairs, spur almost twice as long as blade. Yunnan. 238. *D. hamatum*.
 17. Sepals with spreading hairs. Szechwan. 242. *D. sino-vitifolium*.

235. *Delphinium bulleyanum* G. Forrest ex Diels, Notes Bot. Gard. Edinb. 5: 265. 1912. FIG. 19, A.

Delphinium spirocentrum Hand.-Mazz. var. *pauciflorum* Chen, Bull. Fan Mem. Inst. Biol. (n.s.) 1: 170. 1943. Based on *Yü 15544*, (BM), taken on the east flank of the Lichiang Range, Yunnan, 2800 m.; seen.

Perennial from a woody root, the stem 3–14 dm. tall, glabrous below, spreading pubescent and more or less glandular in the inflorescence, often subglaucous and somewhat violet, simple at least below; leaves well distributed, but gradually reduced up the stem, the lower petioles to 2 dm. long, glabrous, slightly dilated at the base, the uppermost leaves becoming foliose bracts; blades rounded-pentagonal in outline, 3–10 cm. broad, glabrous to scattered strigulose on both surfaces, pale beneath, 5-fid into subcuneate incised-serrate triangular-ovate segments; inflorescence rather laxly racemose; upper bracts setose to lanceolate, lower foliose and divided; pedicels strict, 1–10 cm. long, pubescent; bracteoles setose to wider, usually 5–10 mm. long, located near the flower; sepals rich purple to deep blue-lavender, pubescent without; upper sepal 10–20 mm. long, 8–12 mm. wide, ovate, obtuse to acute, the spur 18–22 mm. long, 4 mm. wide at base, rather narrow at tip, recurved at the middle to make an almost complete

circle; lateral sepals oblong, rounded at apex, 12–15 mm. long, 7–9 mm. wide, glabrous except on the midveins; lower sepals 12–18 mm. long, 8–10 mm. wide, acuminate obtuse, pubescent; petals bluish, the upper laminae slightly oblique, glabrous, 9–11 mm. long, cleft for 1 or 2 mm., the spur 18–20 mm. long; lower laminae oblong, 5 mm. long, cleft halfway into 2 lance-oblong ciliate lobes, bearded at base, claw 4.5–5 mm. long; stamens 6–7 mm. long, glabrous; anthers oblong, dark, 1.3 mm. long; follicles 3(–4), somewhat divergent toward apex, sparsely pilose, 10–12 mm. long, the styles an additional 3 mm. long; seeds dark, 1 mm. long, obpyramidal, covered with minute scales.

TYPE: Moist rocky places among scrub on eastern flank of the Lichiang Range, Yunnan, at 3500–3800 m., Aug. 1906, *G. Forrest* 2694 (E); seen. Isotype (BM); seen.

RANGE. A species of western Yunnan and southwestern Szechwan, at elevations of 2800 m. to 5100 m.

EXAMPLES. Yunnan: *Rock* 9924, 9669, 9766, 9755, 6082, 6085, 5696, 10797, 6091; *K. M. Feng* 1982, 2001; *Forrest* 6556, 11130; *Kingdon Ward* 995. Szechwan: *Kingdon Ward* 4846, 4811.

236. *Delphinium campylocentrum* Maxim. Act. Horti Petrop. 11: 31. 1889. FIG. 19, B.

Delphinium tongolense Rehd. & Kobuski, Jour. Arnold Arb. 14: 11. 1933, *pro parte*, not Franchet, 1893.

To about 7 dm. tall, the stem simple below, with a few scattered up-curved branches in the inflorescence, scattered-pilose below, more densely so above and more or less glandular, leafy, the leaves rather evenly developed; petioles slender, with somewhat dilated base; blades mostly 3-fid, the segments subsessile, cuneate, mostly 3–5 cm. long, the 2 lateral bilobed, then pinnately incisely lobed or coarsely toothed, the central palmately lobed or toothed, these lobes broadly lanceolate, mucronate, strigulose, paler beneath than above; inflorescence open, paniculate, several flowered; bracts mostly narrowly linear, entire, to ca. 10 mm. long; pedicels 2–5 cm. long, slender, with 1 to 3 bracteoles ca. 4–6 mm. long; sepals purplish blue, 15–18 mm. long, glabrous in original description, strigose in specimens seen, cornigerous below apex with terete outgrowths mostly 2-lobed and 2–4 mm. long; upper sepal elliptic-oval, 15 mm. by 8 mm., the spur coarse, strongly incurved (half circle or more), almost 2 cm. long, 4 mm. wide at base; lateral sepals broadly oblong, 13 mm. by 6.5 mm., pubescent along the midrib; lower sepals oblong, 18 mm. by 5 mm.; upper petal laminae glabrous, 11–12 mm. long, slightly 2-lobed, the strongly curved spur as long as the blade; lower petal laminae 11 mm. long, pilose, deeply cleft, oblong, clawed; stamens 5–7 mm. long, glabrous; anthers yellowish, 1.5 mm. long; follicles 3, glabrous.

TYPE: "Ad limites Kansu et Szetschuan, Valle fl. Heiho, 24 Julii 1885," *Potanin* (LE); seen.

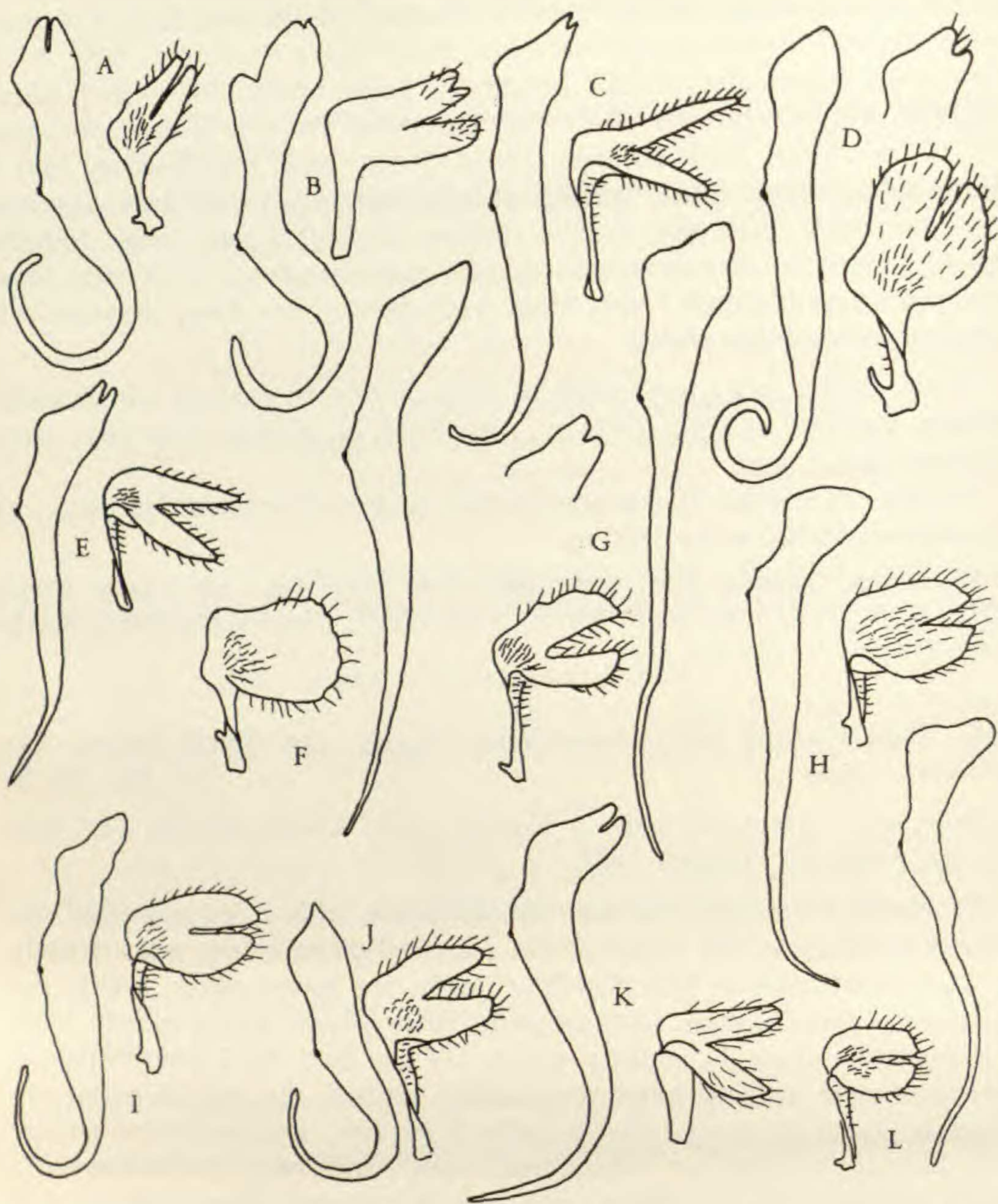


FIGURE 19. *Delphinium*, GROUP X. Petals, the upper spurred, the lower clawed. A. *D. bulleyanum*; upper lamina 9 mm. long, spur 18 mm.; lower lamina 5 mm. long, claw 4 mm.; drawn from *Rock 9924* (US). B. *D. campylocentrum*; upper lamina 12 mm. long, spur 14 mm.; lower lamina 6.5 mm. long, claw 5 mm.; drawn from *Harry Smith 4138* (A). C. *D. eriostylum*; upper lamina 11 mm. long, spur 17 mm.; lower lamina 9 mm. long, claw 6 mm.; drawn from *Esquirol 141*, TYPE (E). D. *D. hamatum*; upper lamina 10 mm. long, spur 22 mm.; lower lamina 9 mm. long, claw 5 mm.; drawn from *Rock 22852* (UC) and upper lamina tip from TYPE (P). E. *D. polyanthum*; upper lamina 9 mm. long, spur 15 mm.; lower lamina 7 mm. long, claw 5 mm.; drawn from *Licent 7719* (BM). F. *D. potaninii*; upper lamina 12 mm. long, spur 20 mm.; lower lamina 7 mm. long, claw 5 mm.; drawn from *Farges 630*, ISOTYPE of *D. fargesii* (NY). G. *D. potaninii*; upper lamina 10 mm. long, spur 23 mm.; lower lamina 7 mm. long, claw 5 mm.; drawn from *E. H. Wilson 1999* (GH). H. *D. sinovitifolium*; upper lamina 9 mm. long, spur 23 mm.; lower lamina 7 mm. long, claw 5 mm.; drawn from *E. H. Wilson 3088*, ISOTYPE (P). I. *D. spirocentrum*; upper lamina 10

SPECIMENS SEEN. Kansu and Szechwan: at about 3000 to 3500 m., *H. Li* 74095 (E); *H. Smith* 4138 (A, BM); *Ching* 849 (E, GH, NY, US); *Rock* 13161 (GH, NY), 13111 (GH, NY), 13109 (GH, US).

237. *Delphinium eriostylum* Lévl. Bull. Herb. Boiss. II. 6: 505. 1906.
FIG. 19, C.

Apparently tall robust perennial, the stem coarse, smooth, glabrous, remotely leafy; upper leaves 3-5-fid almost to base, with scattered stiff hairs on both surfaces but especially on veins beneath, the blades 5-12 cm. wide, each segment narrow cuneate-obovate, incised ca. halfway to midrib into lance-ovate lobules or teeth 3-10 mm. long, 1-5 mm. wide, acute to acuminate; inflorescence a few branched open panicle, each raceme 2- to 6-flowered; bracts stiff-hairy, lance-linear, 2-3 cm. long, 2-3 mm. wide, long-acuminate; pedicels stiff, 2-7 cm. long, arched-ascending to suberect, with few to rather many spreading glandular hairs; bracteoles linear-subulate, 7-15 mm. long, bristly, near the middle of the pedicel; sepals violet, subglabrous; upper sepal ovate, 14 mm. by 9 mm., obtuse, the strongly curved spur ca. 20 mm. long; lateral sepals round-ovate, 16-18 mm. by 10 mm., rounded-obtuse; lower sepals elliptic-obovate, 18-20 mm. by 8 mm., pointed; petals bluish, the upper laminae slightly oblique, 12 mm. long, 4 mm. wide, glabrous, bidentate, the spur ca. 16 mm. long; lower laminae perpendicular to the claws, 7 mm. by 3 mm., bifid to beyond middle into lance-oblong lobes ca. 4.5 mm. long, ciliate and somewhat bearded; stamens 6-7 mm. long, glabrous; anthers dark, linear-oblong, 1.5 mm. long; carpels 3, sparsely stiff-hairy.

TYPE: Kweichow, Ta-tsung, Kouy-hoa, *Esquirol* 141 (E); seen.

Another specimen came from the same area, 2095 without collector's name (E), and one from Yunnan-sen district, Gan-chouen, *Cavalerie* 4486 (E).

238. *Delphinium hamatum* Franchet, Pl. Delavay. 28. pl. 7. 1889.
FIG. 19, D.

Delphinium ceratophorum var. *brevicorniculatum* W. T. Wang, Acta Bot. Sinica 10: 157. 1962. Based on *T. T. Yü* 9598 from Yunnan (A); seen.

Perennial from a large root system; stem ascending, to ca. 2 dm. long, mostly solitary, spreading-hairy, the hairs ca. 1 mm. long; leaves basal, the petioles purplish, slender, hairy, 3-12 cm. long, thin-vaginate at base; blades 3- or 5-partite, pentagonal, 1-7 cm. long, somewhat wider, the

mm. long, spur 20 mm.; lower lamina 7.5 mm., claw 5.5 mm.; drawn from *Forrest* 17187, TYPE of *D. pediforme* (E). J. *D. spirocentrum*; upper lamina 9 mm. long, spur 16 mm.; lower lamina 7.5 mm. long, claw 6 mm.; drawn from *Handel-Mazzetti* 4656, ISOTYPE (E). K. *D. tongolense*; upper lamina 9 mm. long, spur 16 mm.; lower lamina 7 mm. long, claw 6 mm.; drawn from *Harry Smith* 11594 (A). L. *D. tongolense*; upper lamina 8 mm. long, spur 17 mm.; lower lamina 5 mm. long, claw 5 mm.; drawn from *Soulié* 396 (P).

lobes obovate-cuneate, strigulose above, more loosely pubescent beneath, ca. 1 cm. wide and with few coarse triangular teeth 1–6 mm. long; flowers 1 to few, racemose; lower bracts often foliose, the others lance-linear, 5–15 mm. long, acuminate; pedicels arcuate-erect, 1–3 cm. long; bracteoles 2, linear, to 1 mm. broad, near the flower; sepals purplish blue, strigulose without, the upper sepal ovate, 13–16 mm. long, 8–10 mm. wide, acutish, the spur 22–25 mm. long, 3.5 mm. wide at base, tapered gradually to the hamate apex; lateral sepals ovate-oblong, strigose on midvein, rounded at apex, 15–17 mm. by 8–10 mm.; lower sepals elliptic-ovate, 16–20 mm. long, 10–12 mm. wide, obtuse; petals pale blue, the upper laminae almost straight, 10 mm. long, glabrous or nearly so, entire to emarginate; the spur 22 mm. long; lower laminae bearded, 9 mm. by 8 mm., cleft to ca. 4 mm., the claw 5 mm. long; stamens 6–7 mm. long, slightly ciliate; anthers dark, 1.5 mm. long; follicles 3, short-hairy, oblong, 12–15 mm. long, the styles an additional 3 mm.; seeds brown, 2 mm. long, winged on angles.

TYPE: Yunnan, "in collibus calcareis ad Fang-yang-tchang supra Mo-so-yn, alt. 3200 m.," Oct. 14, 1887, *Delavay* (P), seen; isotype (K), seen. Additional sheets with somewhat different data as to elevation are (K, NY).

DISTRIBUTION. A species from Yunnan, largely toward Tibet.

COLLECTIONS SEEN. *Forrest* 15555 (K); *Rock* 23457 (NY), 22852 in part (NY, UC, US), *Delavay* 1676 (K, P), 2676 (P); *T. T. Yü* 9832 (A), 12702 (A), 15544 (A).

239. *Delphinium polyanthum* W. T. Wang, *Acta Bot. Sinica* 10: 145. 1962. FIG. 19, E.

Stem 1.5–2 m. tall, ca. 8 mm. in diameter, glabrous, branched, equally foliose; the middle cauline leaves with non-vaginate petioles slightly longer than the blades; the latter broadly pentagonal, 6.5 cm. long, 10 cm. wide, cordate at base, tripartite 6/7 of their length, the middle part entire below, 3-fid to the middle, the lobes further divided or toothed, the lateral parts unequally bifid to below the middle, loosely strigulose beneath, hirtellous on nerves above; racemes 15–20 cm. long, forming a terminal pyramidal panicle; peduncles 6–10 cm. long, glabrous, axes with white retrorsely appressed hairs above intermixed with yellow glandular hairs; pedicels divergent, 1.5–3 cm. long; bracteoles just above middle of pedicel, subulate, 1.5–4 mm. long, 0.3 mm. wide; sepals blue, elliptic, 10 mm. long, loosely puberulent; spur 18 mm. long; upper petal laminae yellowish, glabrous, emarginate; lower laminae bluish, yellow bearded below the middle, bifid into lance-triangular lobes, ciliate, the claw about as long as blade; stamens glabrous; carpels 3, glabrous, 11–20 mm. long in maturity; seeds obconic-triquetrous, 1.5 mm. long, scaly laminate.

TYPE: Yunnan, Teh-chin, Pai-ma-shan, 3500 m., Sept., 1935, *C. W. Wang* 69805 (PE), not seen; photo. (E), seen.

Two herbarium sheets (Shansi, *Licent* 7719 (BM) and W. Kansu, *Licent* 4279 (BM) agree with the description and photograph of the type, but have glabrous pedicels.

240. *Delphinium potaninii* Huth, Bull. Herb. Boiss. 1: 332. *pl.* 14. June, 1893. FIG. 19, F, G.

Delphinium grandiflorum var. *potaninii* Brühl in Brühl & King, Ann. Bot. Gard. Calc. 5: 98. 1896.

? *Delphinium potaninii* var. *latibracteolatum* W. T. Wang, Acta Bot. Sinica 10: 147. 1962. Based on *F. T. Wang* 22014 which I have not seen, but which has bracteoles 10–12 mm. long, 1–1.2 mm. wide.

Delphinium fargesii Franchet, Bull. Soc. Philom. Paris VIII. 5: 164. (August?) 1893. Type from Szechwan, district Tchen-kéou-tin, *Farges* 630 (P), seen; four sheets all with lower petal laminae deeply divided.

Delphinium bonvalotii Franchet, *loc. cit.* 165. (August?) 1893. Type, Szechwan, near Ta-tsien-lou, *Prince H. d'Orleans & Bonvalot* (P); seen. Lower petal lamina deeply lobed, gaping.

Perennial from a thick root, the stems several, erect, thick, leafy, subglabrous, tall; petioles glabrous to hairy, the lower 1 dm. or more long, scarcely dilated at the base, the upper shorter; lower leaf blades broadly rounded in outline, 8–15 cm. broad, subglabrous or with stiff hairs along the veins beneath, 5- or 7-parted into broad cuneate-obovate segments, these incisely lobed or toothed with sharp angles and acute lobes or teeth 8–30 mm. long; upper leaves reduced, 3- or 5-parted; inflorescence an open panicle, largely glabrous; lower bracts foliaceous, 3-parted into lanceolate lobes to ca. 3 cm. long, upper bracts entire and lanceolate to setaceous, then 3–6(–10) mm. long; pedicels arched or straight, more or less divaricate, slender, 1–5 cm. long; bracteoles setaceous to linear-lanceolate, 2–6 mm. or more long, near the middle of the pedicel; sepals bright blue or with some violet, more or less strigulose without; upper sepal ovate, 10–20 mm. long, 5–12 mm. wide, the spur 20–30 mm. long, 3–4.5 mm. wide at base, strongly curved, with a blunt tip; lateral sepals elliptic, 18–22 mm. long, 10–12 mm. wide, rounded at apex; lower sepals elliptic-rhombic, 14–24 mm. long, 8–9 mm. wide, rounded at tip; petals bluish, the upper laminae almost straight, 8–10 mm. long, entire to emarginate, glabrous; lower laminae hirsute at base, ciliate on margins, oblong to oblong-obovate, 6–8 mm. long, mostly divided into lance-oblong lobes 3–4 mm. long, claw ca. 5 mm. long; stamens glabrous, 6–7 mm. long; anthers dark, 1.3–1.6 mm. long; follicles 3, divergent, glabrous to pubescent, 10–13 mm. long, the styles an additional 2.5 mm.; seeds brown, ca. 1.3 mm. long, covered with minute scales.

TYPE: Kansu, China, *G. N. Potanin*, 1885 (B), not seen; isotype (K), seen.

RANGE. Apparently quite widely distributed in western China, at elevations of about 3000 to 4200 m.

EXAMPLES. Szechwan: *E. H. Wilson* 1999 (BM, GH, US), 819 (GH, US), 1088 (BM), 3095 (A), 3097 (K), 4702 (K, P), 1169 (GH); *K. L. Chu* 3246 (E); *Henry* 8792 (GH, P); *Pratt* 344 (K); *C. L. Sun* 476 (US); *Rock* 16743 (A, US), 23992 (UC), 16637 (US), 16694 (GH, NY, US), 24166 (GH, UC); *W. P. Fang* 1480 (US); *Harry Smith* 4072 (A); *T. K. Wang & T. S. Wen* 581 (A); **W. Hupeh**: *Wilson* 1523 (NY). Yunnan: *Ducloux* 5153 (P).

241. *Delphinium pseudo-tongolense* W. T. Wang, Acta Bot. Sinica 10: 153. 1962.

Stem 6–10 dm. high, 5 mm. in diameter at base, glabrous, often branched, equally foliose; median cauline leaves with petioles 7–8 cm. long, not vaginate; the blades broadly pentagonal, ca. 7 cm. long, 11–12 cm. wide, cordate at base, 3-parted to 6–10 mm. above the base, the middle part rhombic-ovate, acuminate, 3-lobed to below the middle, the lobes with lobules acutely dentate; lateral parts bifid and with secondary or tertiary lobules loosely strigulose beneath, loosely hirtellous along veins on upper surface; racemes 5–18 cm. long, axillary and terminal, forming an open panicle; pedicels 1–3 cm. long, ascending; bracteoles 4.5–7 mm. long, near middle of pedicel, with spreading yellow glandular hairs and retrorsely appressed white ones; sepals bluish purple, oblong to oblong-obovate, 12–19 mm. long, puberulent; spur about as long as sepals, subulate, spirally decurved at middle; upper petal laminae blue or yellowish, glabrous, rounded or emarginate at apex; lower laminae blue, ovate, 2-lobed to middle, yellow bearded at base, long-ciliate, claw appendiculate, as long as limb; stamens glabrous; carpels 3, glabrous or puberulent above.

TYPE: Szechwan, Pao-Lsing, *T. P. Soong 38915* (PE), not seen; photo. (E), seen.

Said to be near *D. tongolense*, but with long-acuminate leaf parts, bracteoles at middle of pedicel, and spur spirally decurved.

242. *Delphinium sino-vitifolium* W. T. Wang, Acta Bot. Sinica 10: 152. 1962. FIG. 19, H.

Delphinium vitifolium Finet & Gagnep. Bull. Soc. Bot. France 53: 126. 1906, not Willd.

Stem slender with soft spreading hairs, 3.5–4 dm. high; cauline leaves few, pilose on both surfaces, slightly cordate, 3–5 cm. in diameter, 3-parted less than halfway into lobes broader than long, these lobes in turn divided into semi-ovate mucronate-acute lobules 3–5 mm. long, somewhat broader; petioles 3–5 cm. long, hirtellous; upper leaves smaller, 1–1.5 cm. long, sessile; raceme lax, few flowered, simple; lower bracts foliose, to 1.5 cm. long, the upper subfiliform, pilose, ca. 8 mm. long; pedicels hirtellous, slender, 3–4 cm. long; bracteoles setiform, pilose, 5–6 mm. long, removed as much as 1 cm. from the flower; sepals blue, pubescent, the upper ca. 10 mm. long with a spur 25 mm. long and hamate at apex; other sepals deltoid-ovate, ca. 12 mm. long; petals bluish, the upper laminae oblique, entire, rounded at apex, 9 mm. long, the spur 22–24 mm. long; lower laminae oblique, oblong-ovate, 7 mm. long, bearded yellow, white-ciliate, divided one third its length, claw hirtellous, appendiculate, 5–6 mm. long; anthers dark, elliptic; carpels 3, glabrous.

TYPE: Szechwan, 3200–4300 m., Sept., 1904, *Wilson 3088* (P, A); seen.

243. *Delphinium spirocentrum* Hand.-Mazz. Symb. Sinicae Pt. 7: 280. 1931. FIG. 19, I, J.

Delphinium spirocentrum var. *hirsutum* Chen, Bull. Fan Mem. Inst. Biol. Peking (n.s.) 1: 169. 1948. Isotype, *T. T. Yü* 7769 (A) from Yunnan; seen.

Delphinium spirocentrum var. *grandibracteolatum* W. T. Wang, Acta Bot. Sinica 10: 153. 1962. Isotype, Yunnan, *T. T. Yü* 9018 (A); seen.

Delphinium pediforme Comber, Notes Bot. Gard. Edinb. 18: 237. 1934. Type, Yunnan, Mekong-Salwin divide, Salwin Valley, *Forrest* 17187 (E), seen; isotype (P), seen.

Delphinium spirocentrum var. *pediforme* (Comber) W. T. Wang, Acta Bot. Sinica 10: 152. 1962.

Stems usually more than one, simple, 1–9 dm. tall, rather slender, densely retrorse-villous, scattered leafy; lower petioles to ca. 3 dm. long, villous, more or less dilated at base, the upper cauline much shorter; leaves rounded-pentagonal in outline, 3–14 cm. in diameter, green and strigose above, paler and with longer stiffer hairs beneath, 5-fid to within 1 cm. of the base, the segments cuneate-obovate, rather shallowly pinnatifid into few lance-oblong teeth or lobules 2–5 mm. wide and rounded to obtuse at apex; racemes simple, rather few flowered, to ca. 2 dm. long; pedicels erect, 2–8 cm. long, with spreading or somewhat retrorse hairs; bracteoles linear, 8–10 mm. long, hairy, placed near the middle of the pedicel or above or below; sepals purplish blue, ovate, strigose without, the upper 15–18 mm. by 7–10 mm., obtuse, the spur sometimes coiled in an almost complete circle, ca. 2 cm. long, 5 mm. wide at base; lateral sepals oblong, 20 mm. by 8 mm.; lower sepals ca. 22 mm. long, 10 mm. wide, obtuse; petals blue, the upper laminae straight, 9–11 mm. long, entire to emarginate, the spur 16–20 mm. long; lower laminae elliptic-obovate, ciliate, bearded at base, 7–11 mm. long, shallowly to deeply bifid, the claw 5–6 mm. long, not appendaged; stamens 6–7 mm. long, glabrous; anthers blue, linear, 2 mm. long; follicles 3, hairy, 15–30 mm. long; seeds brown, 1.3 mm. long, squamate.

TYPE: Szechwan, west side of Mt. Piepun near Dschunglien, *Handel-Mazzetti* 4656 (W), not seen; isotype (E), seen.

DISTRIBUTION. Occurring at elevations of 2800 to 4800 m., Szechwan and Yunnan.

EXAMPLES. **Szechwan:** *Handel-Mazzetti* 7302 (GH, NY); *Rock* 18015 (US), 16694 (GH, NY, US), 16637 (US), 24166 (GH, UC), 24589 (NY, UC), 16760 (P, US), 23979 (E, GH, NY), 16922 (NY, US), 16929 (GH, UC, US), 18294 (US), 13979 (GH, NY, UC), 16814 (F, US), 16398 (GH, US), 16694 (GH, NY, US); *Forrest* 22184 (US); *Kingdon Ward* 4375 (E). **Yunnan:** *Rock* 24771a (GH, K, NY, UC), 9706 (NY, UC, US), 23080 (K, NY, UC, US), 23101 (GH, UC), 22852 (BM); *Yü* 7427 (A), 14577 (A, BM, E), 22461 (A, E), 23215 (A, E); *C. W. Wang* 68543 (A), 68635 (A); *Kingdon Ward* 4617 (E), 4604 (E), 4826 (E); *Schneider* 3249 (GH, US).

244. *Delphinium tongolense* Franchet, Bull. Soc. Philom. Paris VIII. 5: 166. 1893. FIG. 19, K, L.

Perennial from woody base; stems 1 or more, to 1 m. tall, glabrous or with long white or yellowish hairs, (some with enlarged base), few branched above, leafy almost to the summit; petioles slender, the lower 2–3 dm. long, not much widened at base, the upper shorter; blades palmately 3- or 5-lobed to middle or below, the lobes cuneate-obovate, coarsely rather few toothed or lobed, blade as a whole 5–10 cm. wide and long, mostly subglabrous; inflorescence largely paniculate, the branches few, lax, few to several flowered; lower bracts foliaceous, trifid, to 2.5 cm. long, the upper entire, linear or broader, 5–15 mm. long; pedicels slender, ascending, subglabrous to spreading-pubescent, 2–5 cm. long; bracteoles linear-setaceous, 4–7 mm. long, near the middle of the pedicel; flowers deep to pale blue; upper sepal ovate, 15–17 mm. long, 8–10 mm. wide, pubescent, obtuse, the spur 2.5 cm. long, 4 mm. wide at base, pointed; lateral sepals 13 mm. by 10 mm., rhombic-ovate, rounded at ends; lower sepals 15 mm. by 10 mm., more narrowed at base; petals bluish, the upper laminae oblique, 8 mm. long, entire to bidentate, the curved spur 18–20 mm. long; lower laminae bearded, 5–7 mm. long, with 2 divergent lance-oblong lobes 3.5–4 mm. long, claw broad, not appendaged, 5 mm. long; stamens 6–7 mm. long, glabrous; anthers dark, 1.6 mm. long; follicles 3, subglabrous, divergent, 1–2 cm. long, the styles an additional 2 mm.; seeds many, angular, covered with lamellose papillae.

TYPE: Western China, Szechwan, Tongolo, valley of Olong-chen, *R. P. Soulié* 396 (P); seen. *Soulié* 2383 is in a type cover at (K).

RANGE. Western China and adjacent Tibet at perhaps 3500 to 4500 m.

EXAMPLES. Szechwan: *E. H. Wilson* 3089 (K, P); *Soulié* 2383 (K, NY, P); *Stevens* 454 (F); *McLaren's collectors* 258 (E, UC), 206 (E). Yunnan: *Ducloux* 4600 (P). Sikang: *H. Smith* 11340 (A), 11339 (MO, NY), 11594 (A). W. Tibet: *Batang, Soulie* 3890 (P), 3889 (P), 3888 (P), 3050 (P).

REPRESENTATIVE EXSICCATAE

(Unfortunately many important specimens, especially of early collections in Siberia, were not numbered. To cite Regel collections, for instance, is almost useless; often several made in the same year represent different species, so to say "*Regel* in 1891" is not definitive.)

Abolin 8193, *D. confusum*
 Aitchison 957, *D. brunonianum*; 1004, *kohatense*; 671, *semibarbatum*; 862, *suave*; 559, 575, *uncinatum*
 Alboff 194, 195, 196, 182, *D. pyramidatum*; 190, *schmalhauseni*; 15, *speciosum*
 Alexeenko 2620, *D. crispulum*
 Ali, Shaukat 53, 54, *D. brunonianum*
 Anderson, T. 345, *D. viscosum*
 Appleton in 1906, *D. dasyanthum*; 3862, *suave*

Arnold 104, 213, *D. brunonianum*; 12, *kamaonense*
 Artemjev 4266, *D. duhmbergii*
 Atkinson 24250A, *D. roylei*
 Aucher 79, *D. tuberosum*
 Bacon, Eliz. 73, *D. suave*
 Bailey, F. M. 100, *D. vestitum*
 Balansa 859, *D. dasystachyum*; 1352, *formosum*; 1353, *longebracteatum*; 728, *peregrinum*; 858, *venulosum*

- Balls, E. K. 496, 1975, *D. formosum*; 1207, 2406, *peregrinum*
 Balls & Gourlay 1977, 1992, *D. dasystachyum*; 1977a, *longebracteatum*
 Banerji 1231, *D. vestitum*
 Barbey 295, *D. fissum* ssp. *anatolicum*
 Beauvais 409, *D. delavayi*; 1074, *mo-soynense*
 Becker, Al. 29, *D. turkmemum*; in 1873, *D. ochroleucum*
 Biskam 2253, *D. denudatum*
 Bodinier & Ducloux 370, *D. taliense*
 Bohnhof 163, *D. maackianum*
 Boissier, June 1842, *D. cinereum*; in 1846, *ithaburense*; April 1846, *peregrinum*
 Bor in 1941, *D. cashmerianum*
 Borissowa 83, *D. semibarbatum*
 Bornmüller 972, *D. albiflorum*; 6060, 6062, *aquilegifolium*; 1529, 2674, 3093, *venulosum*
 Bourgeau 9, *D. peregrinum*
 Brandis 731, *D. vestitum*
 Brown, W. E. 804, *D. nuristanicum*
 Bullock 7, *D. anthriscifolium* var. *calleryi*; 10125, *anthriscifolium* var. *savatieri*
 Burt & Nairn 586, *D. suave*
 Bushnell 470, *D. maackianum*
- Callery 6, 51, *D. anthriscifolium* var. *calleryi*
 Calvert & Zohrab 1347, *D. albiflorum*
 Capus 50, 51, 53, and June 12, 1886, *D. ochroleucum*
 Carmichael 823, *D. chefoense*
 Cavalerie 2344, 2957, *D. anthriscifolium*; 2169, 2822, *anthriscifolium* var. *calleryi*; 2095, 4486, *eristylum*; 7871, *georgei*
 Cave, G. H. 6, *D. caeruleum*; 177, and in 1910, in 1917, in 1919, *D. viscosum*
 Chaffanjon 804, *D. biternatum*
 Chand, T. R. 72A, 588, 406, 887, *D. brunonianum*; 576, *cashmerianum*; 881, *densiflorum*; 3449, 7192, 31250, *stapeliosum*; 1190, *vestitum*
 Chaney 136, 467, 1104, *D. grandiflorum*
 Chang & Jen 6099, *D. glabricaule*
- Chapman, F. S. 35, *D. caeruleum*; 167, 201, *gyalanum*
 Chen, F. H. 341, *D. maackianum*
 Chiao 1758, *D. hirticaule*
 Chien 5877, *D. anthriscifolium* var. *calleryi*
 Ching, R. C. 1363, 8442, *D. anthriscifolium* var. *calleryi*; 849, *campylocentrum*; 21392, 21616, 30509, *cera-tophorum*; 21456, *delavayi*; 21418, *glabricaule*; 22022, 30535, *hirticaule*; 30572, *likiangense*; 922, 1070, *pseudograndiflorum*; 1123, *pulcher-rimum*; 657, 6576, *pylzowii*; 21372, *tatsienense*; 861, *trichophorum*; 534, *tsoongii*
 Chu, K. L. 3246, *D. potaninii*; 3606, *scaposum*
 Chung 2602, *anthriscifolium* var. *calleryi*
 Clarke, C. B. 29095B, *D. roylei*; 29506, *pyramidale*; 16117, 6168, 16354, 16381, 38970, 40301, 44861, *stapeliosum*
 Collett, H. 964, *D. burmaense*; 5404A, *vestitum*
 Colom 282, *D. altissimum*
 Conrath 1889, *D. schmalhauseni*
 Cooper, R. E. 760, *D. caeruleum*; 5309, 5648, *cashmerianum*; 2024, 2294, *cooperi*; 4322, *ludlowii*; 4791, *muscosum*; 5253, *vestitum*; 605, 1003, 2204, 4911, *viscosum*
 Cooper & Bulley 2008, 2556, *D. altissimum*; 4114, 4223, *scabriflorum*
 Coventry 226, *D. pyramidale*
 Crookshank, Helen 324, 366, *D. centeteroides*
 Cunningham, R. 322, *D. potaninii*; 327, *souliei*; 352, *trichophorum*
- Davis, P. H. 30593, 31305, *D. albiflorum*; 32562, *buschianum* in part; 22801, 22593, 23061, 23325, 23349, 23954, 24370, *carduchorum*; 23612, 23327, 32443, 32562, *crispulum*; 31669, 31999, *dasystachyum*; 39053, *davisii*; 13140, 14703, *fissum* ssp. *anatolicum*; 21122, 21211, *formosum*; 38373, *ilgazense*; 4608 & 4608a, 4894, *ithaburense*; 31496, *kurdicum*; 33853, 33907, *ochroleu-*

- cum*; 4801, 9913, 13473, 14410, 15421, 31567, 38840, *peregrinum*; 32782, 32788, 32813, *venulosum*; 35701, *virgatum*
- Delavay, Abbé 967, 1845, *D. ceratophorum*; 22, 74, 1846, 1847, 4109, *delavayi*; 1676, 2676, *hamatum*; 2484, *likiangense*; 8717, *mosoyense*; 993, 1844, 4220, *pyncocentrum*; 9, *taliense*; 967 bis, 6515, 6670, *yunnanense*
- Dhwoj, Lall 49, 0253, *D. altissimum*; 556, *caeruleum*; 0191, 0641, *drepanocentrum*; 0238, *glaciale*; 36a, 122, *himalayae*; 49, 267, *incisum*; 35, 225, *nepalense*; 234, *pyramidale*; 253, *scabriflorum*; 92, 128, 0258, *vestitum*
- Dickason 369, *D. brunonianum*; 9052, *burmaense*; 367, 368, 370, 371, 373, *cashmerianum*; 366, *denudatum*; 365, *roylei*; 335, *pyramidale*
- Dinsmore 1864, *D. ithaburense*
- d'Orléans, Prince, & Bonvalot 7-29-1890, *D. tatsienense*
- Dorsett & Dorsett 696, 3367, *D. grandiflorum*
- Dorsett & Morse 7051, *D. grandiflorum*
- Douglas, W. O. 161, 236, *D. aquilegifolium*; 39, *ithaburense*
- Drummond, J. R. distributions 1313, 4341, 4346, 4348, *D. brunonianum*; 8328, *denudatum*; 14811, *kohatense*; 4345, 4349, 6285, *vestitum*
- Ducloux 597, *D. ceratophorum*; 5337, *delavayi*; 579, *hirticaule*; 3875, *mosoynense*; 5153, *potaninii*; 596, *tatsienense*; 4600, *tongolense*; 370, 2874, 5866, 7329, *yunnanense*
- Duthie, J. F. 745, 5301, in 1896, 7-25-1899, 7-24-1899, 13370, 13751, 13921, *D. brunonianum*; 794, 3804, 5302, *cashmerianum*; 2677, 5303, *densiflorum*; 2675, 5299, *kamao-nense*; 13490, 14123, *pyramidale*; 13440, 14091, *roylei*; 5304, 19119, *vestitum*
- Egorova, Tzelev, & Czerepanov 418, *D. pallidiflorum*
- Emme, L. 451, *D. dasyanthum*
- Esquirol 24, 122, *D. anthriscifolium* var. *calleryi* & var. *savatieri* respectively; 141, *eriostylum*
- Eyerdam, W. 2, 7-27-28, 7-14-28, 7-15-28, 8-25-28, *D. brachycentrum*
- Faber, 725, *D. anthriscifolium*
- Falconer 66, *D. brunonianum*; 65, *cashmerianum*; 60, *denudatum*; 62, *pyramidale*; 61, *roylei*; 64, *vestitum*
- Fan & Li 98, *D. anthriscifolium*
- Fang, W. P. 758, *D. anthriscifolium*; 12258, *anthriscifolium* var. *calleryi*; 2944, *delavayi*; 9286, *grandiflorum*; 1083, 4037, *orthocentrum*; 2241, *spirocentrum*; 4038, *sungpanense*; 4276, *tatsienense*
- Farges 1146, 1440, 1441, *D. anthriscifolium*; 630 bis, 630 ter, *hirticaule*; 630, *potaninii*
- Farrer 159, *D. georgei*; 1156, 1867, *micropetalum*
- Farrer & Purdom 242, 243, *D. albo-caeruleum*; 237, *beesianum*; 578, 611, *grandiflorum*; 253, *monanthum*; 710, *pylzowii*; 798, 800, 803, *trichophorum*
- Faurie 26, *D. maackianum*
- Fedtschenko in 1901, *D. dasyanthum*
- Feng, K. M. 2395, *D. beesianum*; 1982, 2001, *bulleyanum*; 2714, *chefoense*; 217, 1697, *delavayi*; 2742, 2272, *georgei*; 2207, *mairei*; 2514, *mosoynense*; 1836, 2115, *ponanthum*; 2257, *tatsienense*; 2841, *tenii*; 1726, *umbrosum*; 89, *yunnanense*
- Field & Lazar 730, 850, *D. peregrinum*
- Fleming 5-23-51, *D. uncinatum*
- Forrest, G. 6694, 11276, 6364, 14857, 18961, 20204, 20572, 22967, 22577, *D. beesianum*; 2694, 6556, 11130, *bulleyanum*; 6403, 6568, 2763, 10967, *ceratophorum*; 3035, 6690, 11363, 15173, 15198, 16942, 22471, 22483, *coleopodium*; 2963, 2861, 2604, 6319, 28587, 2604, 6319, *delavayi*; 11353, *georgei*; 15555, *hamatum*; 6483, 6540, 2903, 11360, 11052, 11203, 16949, 15322, 15170, 16949, *likiangense*; 221, 27516, 27225, 25091, *micropetalum*; 20780, *monanthum*;

- 2866, 6533, 15233, *mosoynense*;
6538, 10968, 11449, 15112, 16951,
23185, 22378, *pseudograndiflorum*;
14929, 17187, 19031, 30044, 22184,
spirocentrum; 6494, 6538, *tatsien-*
ense; 6683, 3030, 11305, 16923,
15194, 22347, 22603, 22966, *tricho-*
phorum; 14665, 18962, 20060,
20979, *tsarongense*; 25052, *umbro-*
sum; 2977, 7216, 15536, *yunnanense*
- Frödin 328, *D. vanense*
- Fu, K. N. 1146, *D. acuminatissimum*
- Furse 3654, 3785, *D. albiflorum*; 2627,
aquilegifolium; 3061, *cyphoplec-*
trum; 3732, *dasytachyum*; 3404,
macrostachyum
- Furse & Synge 329, 330, *D. aquilegi-*
folium; 784, *laxiusculum*
- Gaillardot 52, 367, *D. peregrinum*
- Garrett 452, *D. siamense*
- Giles 6-24-86, *D. kohatense*
- Gill 151, *D. brunonianum*
- Gillett, J. B. 9501, 12473, *D. micran-*
thum; 11782, *pallidiflorum*
- Gillett & Rawi 7223, 7404, 11206, *D.*
micranthum
- Gilliatt-Smith 2514, *D. crispulum*
- Giraldi 4819, 4820, 4823, 4825, 4826,
D. giraldii
- Gontchazov 8-22-1928, *D. dasyanthum*
- Gould, B. J. 1412, *D. glaciale*; 508,
kingianum; 1300, *viscosum*; 1598,
wardii
- Griffith 45, *D. centeteroides*; 43, *ko-*
hatense; 42A, 461, 827, *D. stapelio-*
sum
- Grossheim, A. 305, *D. crispulum*; 37,
ochroleucum
- Grossheim & Schischkin 333, *D. flex-*
uosum
- Guest, E. V. 7-28-33, *D. kurdicum*
- Guest & Ludlow-Hewitt 2691, *D.*
micranthum
- Gurvitsch in 1937, *D. laxiusculum*
- Guthrie, J. in 1947, *D. gyalanum*
- Haines, R. W. 416, *D. kurdicum*; 513,
macrostachyum; 1320, *micranthum*;
1712, *quercetorum*
- Hanbury-Tracy 143, *D. brunonianum*;
195, *pseudograndiflorum*
- Handel-Mazzetti 5495, *D. autumnale*;
11802, *anthriscifolium*; 8128, *beesi-*
anum; 4105, *coleopodum*; 9712,
micropetalum; 5103, *mosoynense*;
4576, 7819, 7424, *pogonanthum*;
4656, 7302, *spirocentrum*; 5515,
trichophorum; 7934, *tsarongense*;
7809, *umbrosum*
- Haradjian 552, 571, 2537, *D. fissum*
ssp. *anatolicum*; 1525, 2158, *pere-*
grinum
- Harriss, S. A. 15837, *D. suave*
- Hausknecht, April 1868, *D. cypho-*
plectrum; in 1865, *peregrinum*;
June 1867, *quercetorum*; July 1868,
saniculifolium
- Hay 373, *D. centeteroides*
- Hazara, Burt & Kazmi 1266, *D.*
pyramidale
- Heideman 5-27-1932, *D. pallidiflorum*
- Heideman & Aliev 7-2-1932, *D.*
szowitsianum
- Hemsley 7, *D. anthriscifolium* var.
calleryi
- Henry, A. 1348, 1966, 5862, *D. an-*
thriscifolium; 7263, *anthriscifolium*
var. *calleryi*; 200, *anthriscifolium*
var. *savatieri*; 6952, 6952A, *henryi*;
9668, 9668A, *pogonanthum*; 8792,
potaninii; 7448, *trifoliolatum*; 9272,
9272A, 13440, *yunnanense*
- Hingston 367, 408, *D. gyalanum*
- Hohenacker in 1834, in 1835, *D. lax-*
iusculum; in 1838, *ochroleucum*; in
1834, *puniceum*; July 1838, *szowit-*
sianum
- Hooker, J. D. 2293, *D. glaciale*
- Horner, S. 152, 153, *D. cyphoplectrum*
- Hosie in 1904, *D. trichophorum*; in
1904, *tsarongense*
- Hsia 3159, 2065, *D. grandiflorum*
- Huggins, P. 39, *D. densiflorum*
- Hultén 733, 638, *D. brachycentrum*
- Ikonnikov-Galitzky 365, 746, 3335,
3428, *D. cheilanthum*; 785, *dissec-*
tum; 2915, *elatum*; 210, 314a, 802,
grandiflorum; 82, *triste*
- Jacquemont 668, 2025, *D. brunonia-*

- num; 720, 1896, *caeruleum*; 671, 1005, *cashmerianum*; 721, 883, *denudatum*; 673/791, 791, 1171, *roylei*; 672, *uncinatum*; 2134, *vestitum*
Jafri & Akbar 2197, *D. centeteroides*
Jaschke 2495, *D. lacostei*
- Kabir 14811, *D. aquilegifolium*
Karelin & Kiriloff 1169, *D. dasyanthum*; 1164, *duhmbergii*; 1168, *elatum*
Karjagin & Jsoev 8-25-1933, *D. foetidum*
Karjagin & Safiev 150, *D. buschianum*
Karo, F. 188, *D. cheilanthum*; 207, *grandiflorum*
Kass & Nuri 27607, *D. quercetorum*
Keng 1311, *D. anthriscifolium* var. *calleryi*; 880, *anthriscifolium* var. *savatieri*
Kerr, A. F. G. 337, 4454, 6612, *D. siamense*
Kingdon-Ward; see Ward
Kitamura 8-2-1955, *D. nuristanicum*
Knorrig, O. E. 368, *D. knorringianum*
Koelz, W. 12719, *D. afghanicum*; 18257, *aquilegifolium*; 1000A, 1233, 2400d, 2407, 2508, 2804, 2835a, 3026, 5562, 6516, 6622a, 6703, 6841, 7006, 9551, 10112, *brunonianum*; A38, 1277, 850, 588, 1313, 2787, 2803a, 2973, 5803, 6026, 6927, 10028, 10041, *cashmerianum*; 21082, *densiflorum*; 1848, 3163, 4841, 4638, 4963, 8344, 8659, 8328, 21113, *denudatum*; 4757, 4921, 4922, *koelzii*; 18164, *lanigerum*; 12713, *minjanense*; 18015, *pallidiflorum*; 9313, *pyramidale*; 9261, *roylei*; 25579, 31250, *stapeliosum*; 18519, *syncarpum*; 13725, 13853, 14100, *tetanopectrum*; 18110a, *tuberosum*; 3077, 21952, *vestitum*
Kolenati 1590, *D. ochroleucum*
Komarov, V. L. 6-26-93, *D. biternatum*; 7-18-1908, 3896, *D. brachycentrum*; 6-26-92, *dasyanthum*; 670, *grandiflorum*; 671, *maackianum*
Korolkov 76, *D. dasyanthum*
Korshinsky 80, *D. karateginii*
Koslov, 240, *D. grandiflorum*
Kotschy 239, 239b, *D. aquilegifolium*; 153, 393a, 400, May 1842, *cyphoplectrum*; 427, 503, *kurdicum*; 430, *lanigerum*; 754, *longebracteatum*; 410, 610, *micranthum*; 1, 8-1-41, *peregrinum*; 536, *saniculifolium*; 227, *virgatum*
Krascheninnikov 87, *D. dissectum*
Krause, K. 4109, *D. peregrinum*
Kronenburg 166, *D. pallidiflorum*
Kuan, K. C. 2290, *D. tianshanicum*
Kuschakewicz 7-22-78, *D. dasyanthum*
Kusnezow 875, 885, *D. elatum*
- Lace, J. H. 3862, *D. centeteroides*; 164, 734, 1523, 1924, *D. denudatum*; 6012, *lacei*; 2094, *lacostei*; 467, 850, *roylei*; 3326, 3351, *uncinatum*
Lacoste 11, *D. molle*
Ladygin, Oct. 1900, *D. trichophorum*
Lamont, J. 1065, *D. anthriscifolium*
Lance 18, *D. brunonianum*; 21, *cashmerianum*
Ledebour 809, *D. grandiflorum*
Legendre 1563, *D. lancisepalum*
Lepcha 269, *D. caeruleum*; 865, *micropetalum*
Li, C. F. 10707, *D. grandiflorum*
Li, H. 74095, *D. campylocentrum*; 78175, *lancisepalum*; 78358, *pseudocampylocentrum*; 74016, *pseudograndiflorum*; 74723, *souliei*; 78699, *trichophorum*
Li, K. F. 63169, *D. trifoliolatum*
Li & Chu 7003, *D. tianshanicum*
Licent, R. P. 1305, 1999, 7665, *D. grandiflorum*; 2760, 4544, *henryi*; 4279, 7719, *polyanthum*; 4686, *pulcherrimum*; 5655, *siwanense*
Ling, K. 9143, *D. grandiflorum*
Liou, K. M. 1405, *D. grandiflorum*; 5093, *henryi*
Liou, T. N. & P. C. Tsoong 986, *D. taipaicum*
Lipschitz 685, *D. batalinii*; 718, *minjanense*
Liu, Y. 1433, 1968, 12689, *D. grandiflorum*
Lipsky 1685, *D. batalinii*; 1783, *duhmbergii*; 8-10-1896, *propinquum*; 1887, *semiclavatum*; 3070, 5-8-1912, *turkmemum*

- Litchfield in 1890, *D. densiflorum*
 Litwinow 490, 989, *D. grandiflorum*;
 2026, 3013, *maackianum*; 443, 444,
semibarbatum; 447, 448, *turkme-*
num
 Loftus 5-3-1852, *D. cyphoplectrum*
 Lomakin in 1895, *D. foetidum*
 Lowndes, D. 1283, 1323, *D. brunonia-*
num; 1229, 1324, *kamaonense*;
 1347, 1505, *nepalense*
 Ludlow, F. 433, 838, *D. brunonianum*;
 332, *candelabrum*; 864, *cashmeria-*
num; 775, 781, *kamaonense*; 762,
poltaratzkii; 48, *psuedograndiflo-*
rum; 868, *roylei*
 Ludlow & Sherriff 1987, *acuminatissi-*
imum; 523, 6899, *D. albocaeruleum*;
 298, 3496, 3558, *altissimum*; 1995,
 6912, 8504, 8930, 8561, 9010, 9925,
brunonianum; 873, 887, 1016,
 19686, *bhutanicum*; 779, 1968, 1977,
 2400, 9751, 9952, 11067, *caeruleum*;
 1881, 2814, 7914, *cashmerianum*;
 523, *candelabrum*; 3519, 17065,
 19578, *cooperi*; 7671, 8106, 9106,
denudatum; 16786, 17128, 19724,
glaciale; 9073, 9814, 11114, *grandi-*
florum; 154, 528, 2421, 2461, 1942,
 8781, 8789, 2777, 9893, 11108,
gyalanum; 2424, *hillcoatiae*; 527,
 855, *kingianum*; 894, 470, 368, 1008,
 16972, 19485, 20978, 21303, *lud-*
lowii; 3537, *muscosum*; 17128,
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ADDENDUM

Chienia honanensis W. T. Wang. Dr. Lothar Benzing of the Institut für Allgemeine Botanik at Mainz, West Germany, has very kindly called my attention to, and sent me a xeroxed copy of an article in *Acta Phytotaxonomica Sinica* 9: 104–107. pls. VI, VII. 1964, in which W. T. Wang proposed a new genus *Chienia*, closely related to *Consolida* and *Delphinium*. As the Royal Botanic Garden at Edinburgh had received photographs, and even isotypes, of many of Wang's earlier species of *Delphinium*, I asked Dr. Peter Davis whether they had any material of the *Chienia*, but word has just come that he and Mr. Lauener have none.

Wang's excellent illustration of *Chienia honanensis* W. T. Wang and the detailed Latin descriptions of the genus and species certainly suggest *Delphinium grandiflorum* L. in habit, vesture, leaf dissection, flower color, and size. The